APRIL/MAY 2023

CSEL64/BSEL64/USEL64 - CELLULAR PHONES : PRINCIPLES AND PRACTICE

Time : Three hours Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What is interference?
2. Define : Hand over
3. What is input mechanism?
4. List out the classification of mobile phones.
5. Define : Modulation
6. Write down the function of network management software.
7. List out the types of mobile messages.
8. What is security?
9. Define : IRDA
10. What are purpose of PDC network protocol?

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions

11. (a) Write a note on cell splitting.

Or

(b) Discuss about power control in cell planning.

12. (a) Explain about keypad input.

Or

(b) Write a note on pen-based input and voice based input.

13. (a) State the issues of RF.

Or

(b) Discuss about digital speech coding.

14. (a) Elucidate the working of SMS.

Or

(b) Describe the function of message oriented middleware.

15. (a) Explain about 3G devices and its application.

Or

(b) Brief a note on GSM and CDMA one.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Sketch the architecture of cellular network.

17. Discuss about mobile phone classifications.

18. Illustrate the channel coding and decoding technique.

19. Explain about the types of security threats.

20. Write a note on Bluetooth.

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